

SWIM Users Forum

Presented by:
FAA SWIM Program Office
January 14, 2021

System Wide Information Management
AJM-316



Welcome!

Optional ways to engage during the webinar

As a webinar attendee you should see a toolbar at the bottom of your screen with the icons pictured below. Here's how and when to use each option.

Raise Hand: Click the "**Raise Hand**" icon in your menu bar (see image below) to ask a question verbally. The moderator will be alerted and will unmute you so you may ask your question.



Q&A: Click the "**Q&A**" icon in your menu bar (see image below) to submit a question via text. The moderator will be alerted and will read your question aloud on your behalf or respond to you via text.



Chat: Click the "**Chat**" icon to send a chat message to the host.



Agenda

- STDDS R6P2 Update
- Identity Access Management (IAM) Update
- SWIFT Portal Update and Q&A
- Governance Questionnaire
- Information Services Roadmap
- SWIFT 12 Recap, SWIFT 13 Preview

STDDS R6P2 Update

Presented by:

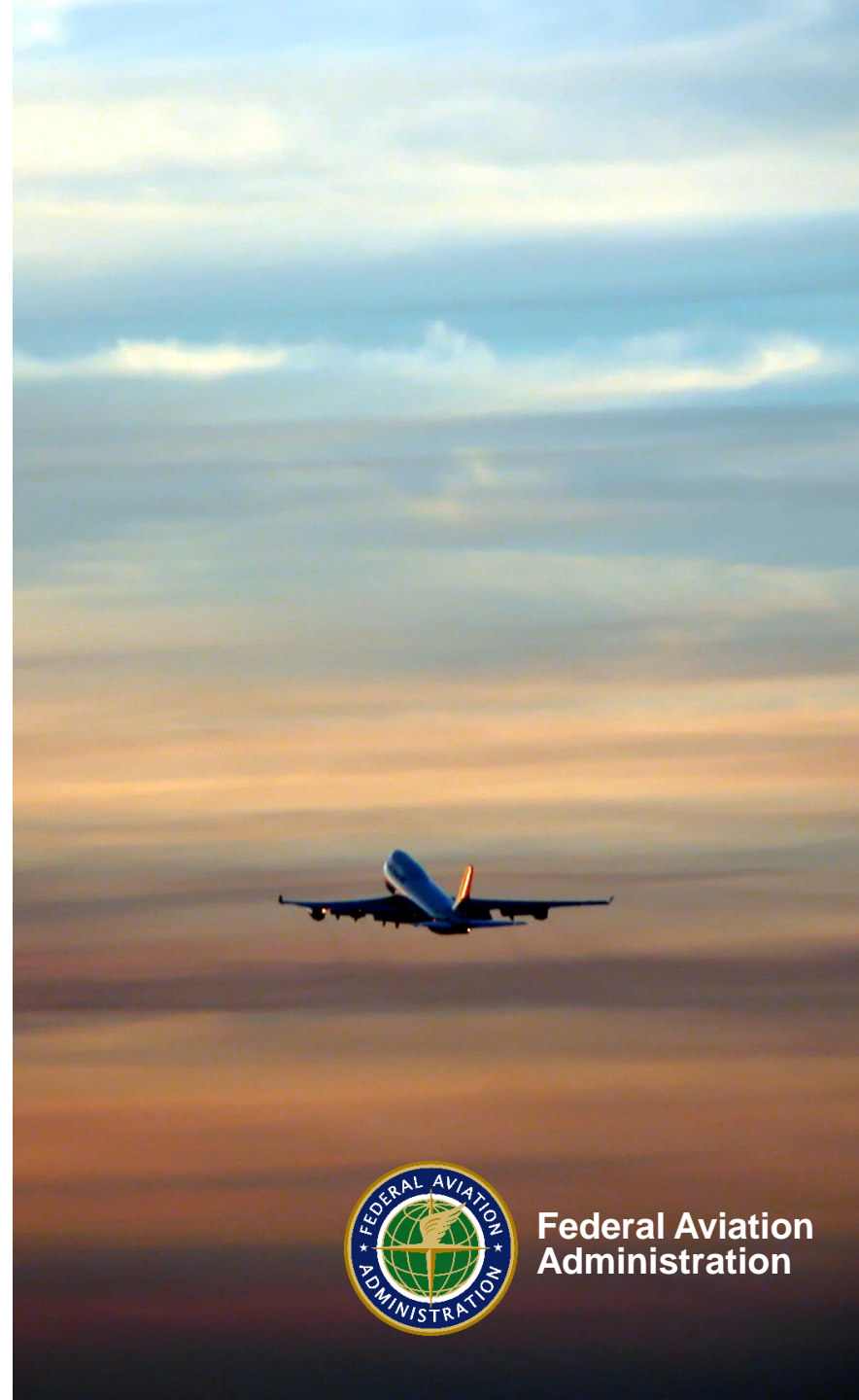
Cora Buck

STDDS Lead

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STDDS Update

- R5
 - Technical refresh of hardware at all 38 STDDS TRACON sites
 - IOC December 2020
- R6, now R6P2 (Release 6 Phase 2)
 - Timeline:
 - Key Sites: October/November 2021
 - Deployment: Early 2022
 - Due to COVID-19, an expanded R6 (R6P2) will add functionality to R6 and be deployed later as a single release
 - All previously planned R6 functionality is retained
 - Additional functionality is being added
 - Schema to remain backward compatible
 - Most enhancements are administrative or designed to improve performance and are transparent to end users
 - Draft documentation (WSRD, JMSDDs, Schema, Release Notes) on NSRR Spring 2021

STDDS Update

- R6P2 Functionality

- Select enhancements, new R6P2 additions in blue:

All Services	<ul style="list-style-type: none">• LADD filtering• Improve STDDS downtime detection/record keeping• Security enhancements
TAIS	<ul style="list-style-type: none">• Data to remain in R4/R5 format. No client side changes required• Add optional rawFlightRules field to TerminalAutomationFlightPlan message• Publication of all associated TAIS data regardless of altitude• Publish STARS AIG210 in TAIS Service• Reduce message loss on STARS switchover
TDES	<ul style="list-style-type: none">• Enhance TDES with 8 new TDLS messages• Publish additional TDLS data—beacon code, ERAM ECID, aircraft type—in TDES messages• Parse and publish entire dataHeader in DATISMessage
SMES	<ul style="list-style-type: none">• Enhance SMES with 2 additional airport movement events—Runway in, Runway out• Add *_COVAR and DF type fields to the MLAT and ADSB CAT10 messages to improve track precision measure• Enhance CAT10 messages with SFDPS flight plan data• Add ASDE-X data published in Maintenance Mode to STDDS feed
ISMC	<ul style="list-style-type: none">• Publish link status and site heartbeat in MMIXM format in addition to XML native

Identity and Access Management (IAM)

Securing NAS Communications

Presented by:

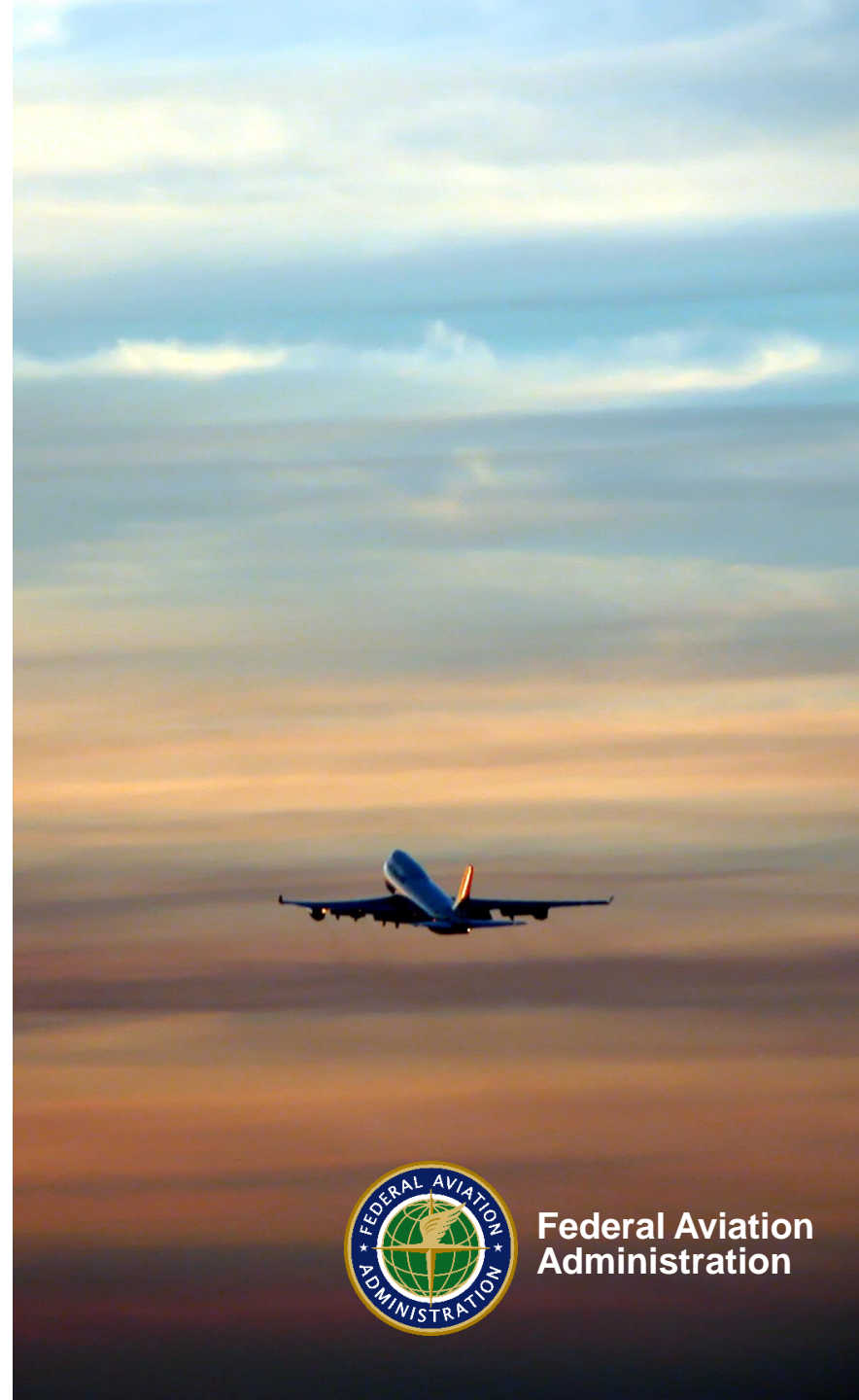
Jim Laymon

IAM Project Lead

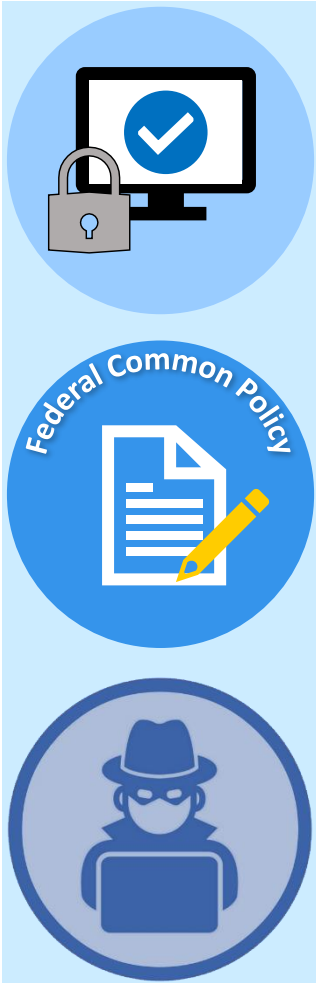
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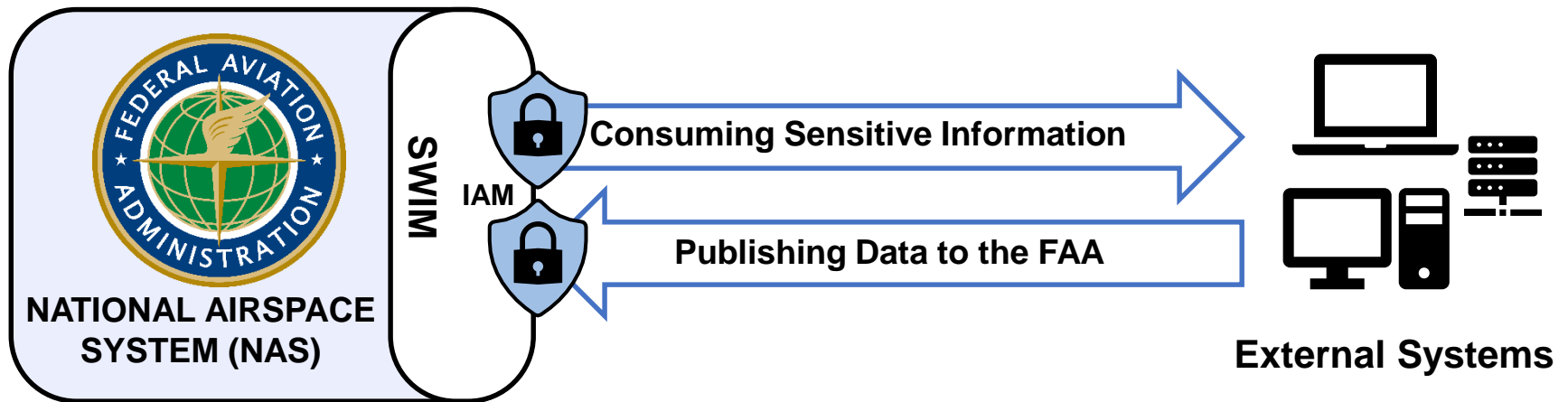
SWIM Security: Identity and Access Management (IAM)



- Mutual Strong Authentication is required per the FAA Policy Order #1370.123
 - Required Uses for certificate authentication:
 - External producers sending data into NAS
 - Sensitive Data distributed from NAS
- FAA utilizes the Federal PKI trust framework
 - U.S. Federal PKI Common Policy Framework
- Reduces NAS cyber risks by:
 - Reducing the chance of unauthorized access to NAS assets
 - Guarantees identity of information provider

Scope

- Strong Authentication will be required for those external systems
 - Sending data into the FAA (NAS)
 - Receiving sensitive information from FAA (NAS)



IAM System/Services Overview

- IAM Services
 - **Internal Certificate Issuance** - Registration services to issue certificate credentials to FAA NAS systems (Non-Person Entities)
 - **Certificate Validation** - A validation service for validating certificates of any approved provider
 - **Security Token Services** - A Security Token Service (STS) provides temporary certificate-based tokens used when passing credentials across the NAS boundary

External User Certificates

- External systems will need to provide certificate credentials
- Certificates are typically issued by a commercial certificate authority, which should be approved and trusted by the FAA



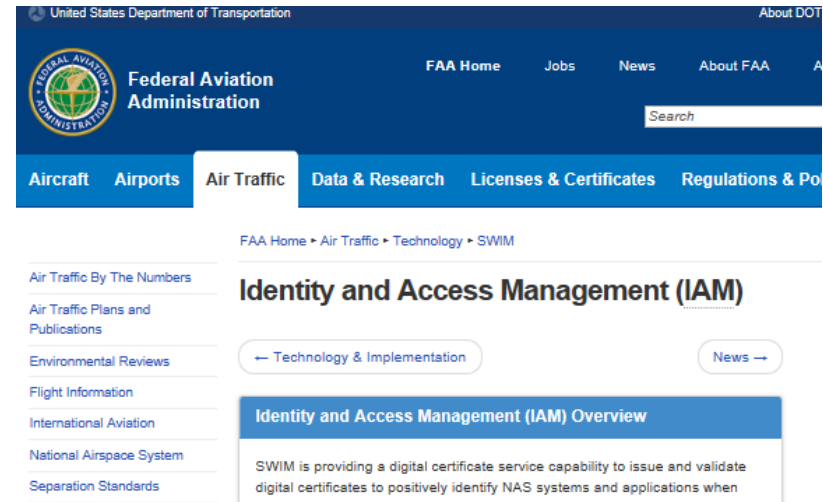
Compliance

- The FAA policy requires FAA systems to get approval of an implementation plan by 9/14/2021
- SWIM will work with affected parties to develop a schedule for compliance

Contact Information

- **SWIM Program**

- Kristin Cropf
 - SWIM Program Manager
 - Kristin.Cropf@faa.gov
- Jim Laymon
 - IAM Project Lead
 - Jim.Laymon@faa.gov



- **NAS Information Security**

- Jenny Perez
 - Manager, Strategy & Domain Solutions, AJW-B410
 - Jenny.Perez@faa.gov
- IAM website: https://www.faa.gov/air_traffic/technology/swim/iam/

SWIFT Portal Rollout Update

Presented by

Michael Pozsgay

FAA SWIM Cloud Applications Lead

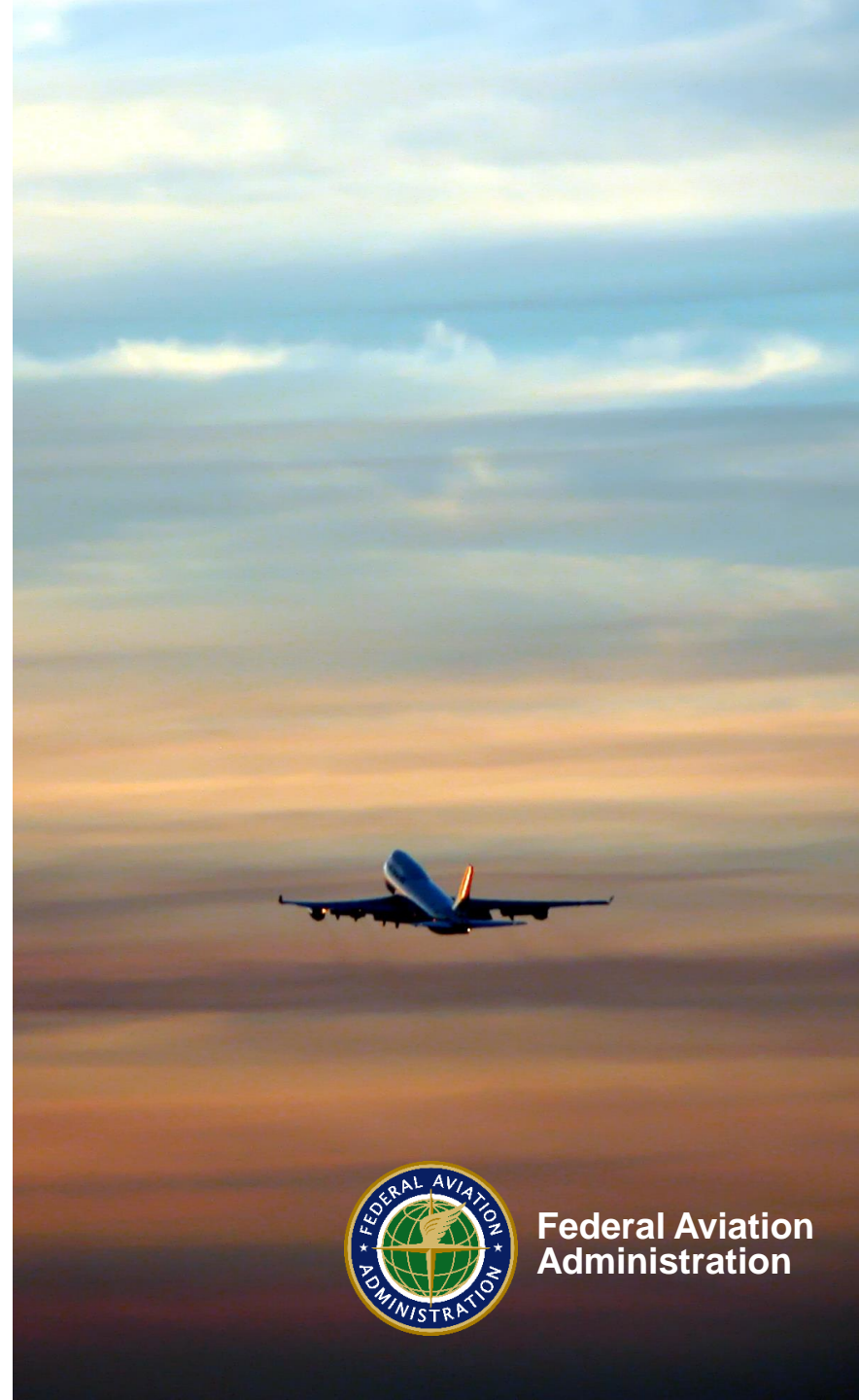
Alex Murray

Noblis

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SWIFT Portal Overview

SWIFT Portal is a publicly accessible cloud-based infrastructure that brings new capabilities to build upon the SWIM Cloud Distribution Service (SCDS)

This service will include new Service Discovery, Service Status, Community Forum, Cloud Distribution Service and Self-Service Help Desk.

The image displays four overlapping screenshots of the SWIFT Portal interface:

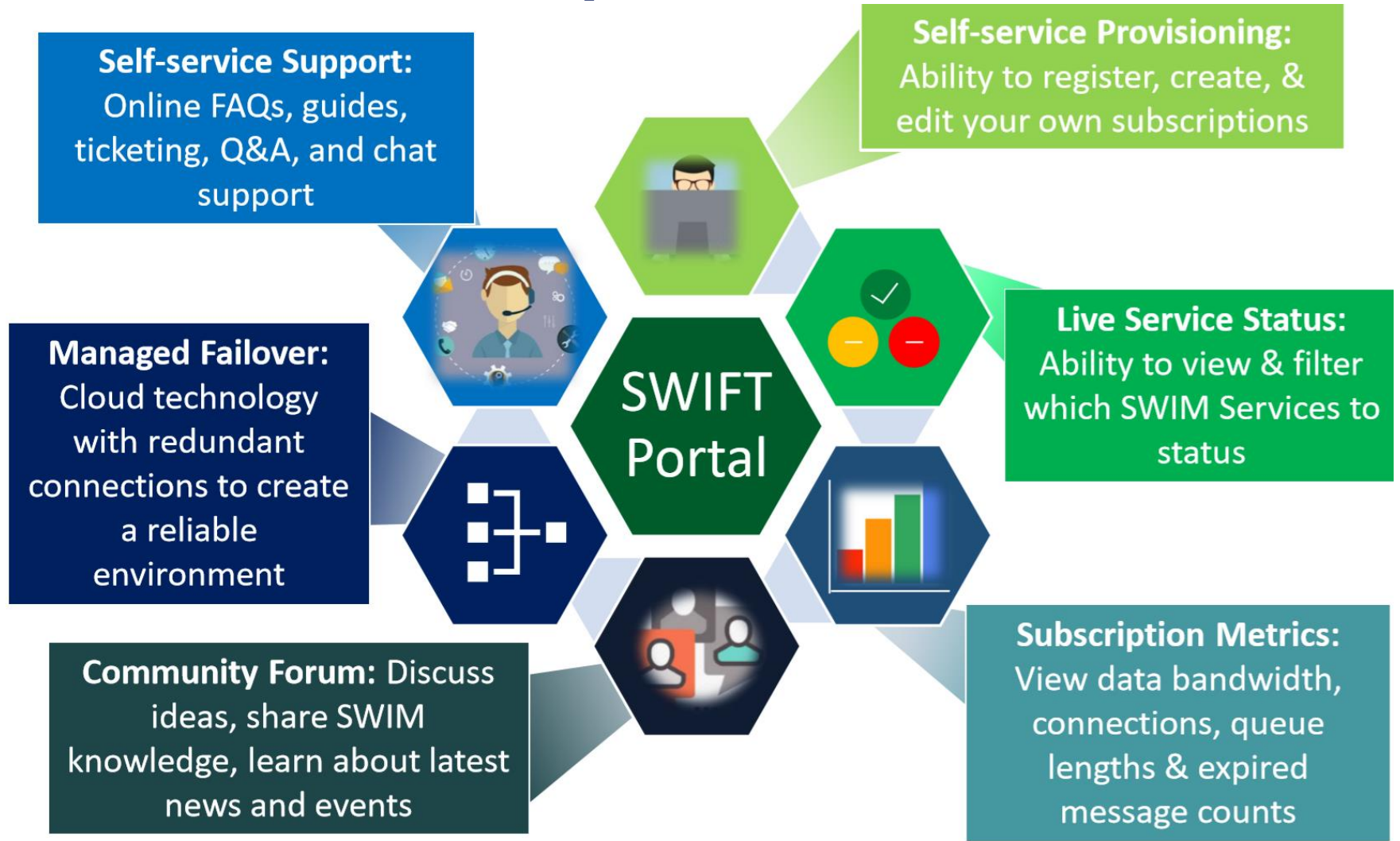
- Community:** Shows a forum with posts like "Outage Notification - June 9, 2020" and "Setting up filters for your subscriptions".
- Status Overview:** A dashboard showing the status of various services. It includes a table for SCDS, ACY, OEX, and ATL, and another table for STDDS, TFMS, and ITWS.
- Discovery - STDDS:** A page listing STDDS Services, including Infrastructure System Monitor and Control (ISMC), Airport Data Service (APDS), Surface Movement Event Service (SMES), Tower Departure Event Service (TDES), and Terminal Automation Information (TAIS).
- Help and Support:** A page with a search bar, a "Have a question about SWIM data?" section, and a "Have a technical issue? Contact the SWIM Help Desk." section. It also features a "Featured Articles" section and a "Recent activity" section.

Service	SCDS	ACY	OEX	ATL	SLC
ISMC	✓	✓	✓	✓	✓
APDS	✓	✓	✓	✓	✓
SMES	✓	✓	✓	✓	✓
TDES	✗	✓	✓	✓	✓
TAIS	✓	✓	✓	✓	✓

Service	SCDS	ACY	OEX	ATL	SLC
TFMS	✓	✓	✓	✓	✓
Status	✓	✓	✓	✓	✓
Flow	✓	✓	✓	✓	✓
Flight	✓	✓	✓	✓	✓

Service	SCDS	ACY	OEX	ATL	SLC
Standard	✓	✗	✓	✓	✓
Alerts	✓	✓	✓	✓	✓

SWIFT Portal Experience



SWIFT Portal Timeline

SWIFT Portal Go Live: Tentatively planned for Spring 2021

- SCDS Users will be notified of the Portal rollout at least a month prior to going live.
- SWIM will communicate the change through direct emails from SCDS@faa.gov, SWIM Users Forums, SWIFT meetings, the SWIM website and notifications within SCDS upon login.
- Following the rollout, when logging into SCDS you will be automatically redirected to the new Portal login page. Your SCDS account, password and subscriptions will be migrated automatically.

Questions



SWIM Governance Update

Presented by:

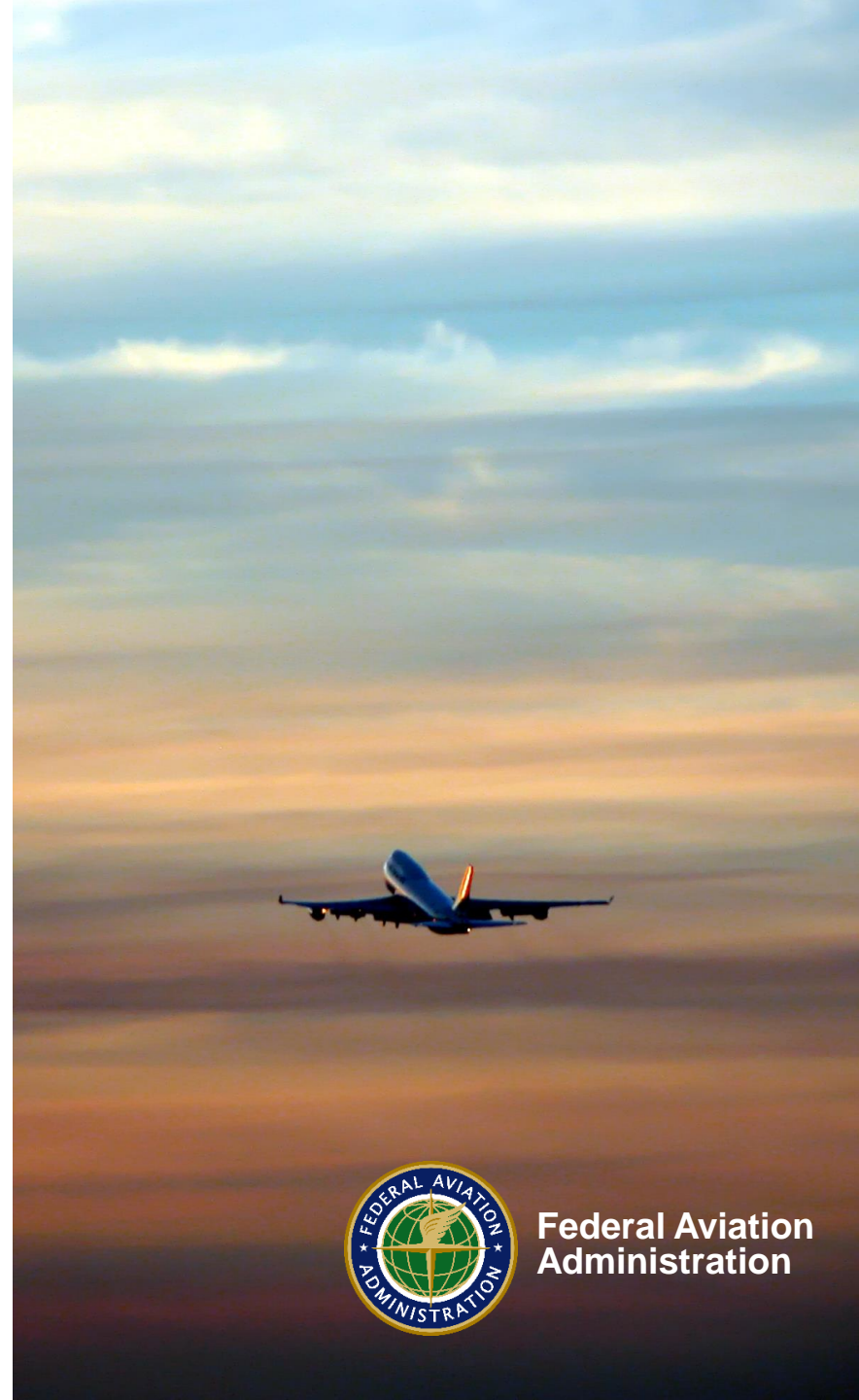
Mark Kaplun

SWIM Governance Lead

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SWIM Governance Framework (SGF)

Step 1: Collecting input from SWIM Stakeholders

- ✓ Interviewed members of the SWIM Program Office and contracting personnel.
- ✓ Collected all received comments into a Resolution of Comments (RoC) matrix. The RoC with resolutions provided by the Governance team will be presented to SWIM PM and subsequently to all interviewed.
- ✓ Will meet with SWIM's business partners to further discuss the expectations and visions of SWIM Governance.
 - ✓ Format: SWIM Partner Roundtable
 - ✓ Date: TBD

Step 2: Identifying the scope of SGF

Dependencies: Requirements for SWIM Segment 3.

Step 3: Design and Implementation of SGF

Timeframe: 2021. The schedule depends on Step 2.

Contact

Kristin Cropf | SWIM Program Manager

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Mark Kaplun | SWIM Governance Lead

✉ mark.kaplun@faa.gov

Information Service Roadmap & SWIFT Update

Presented by:

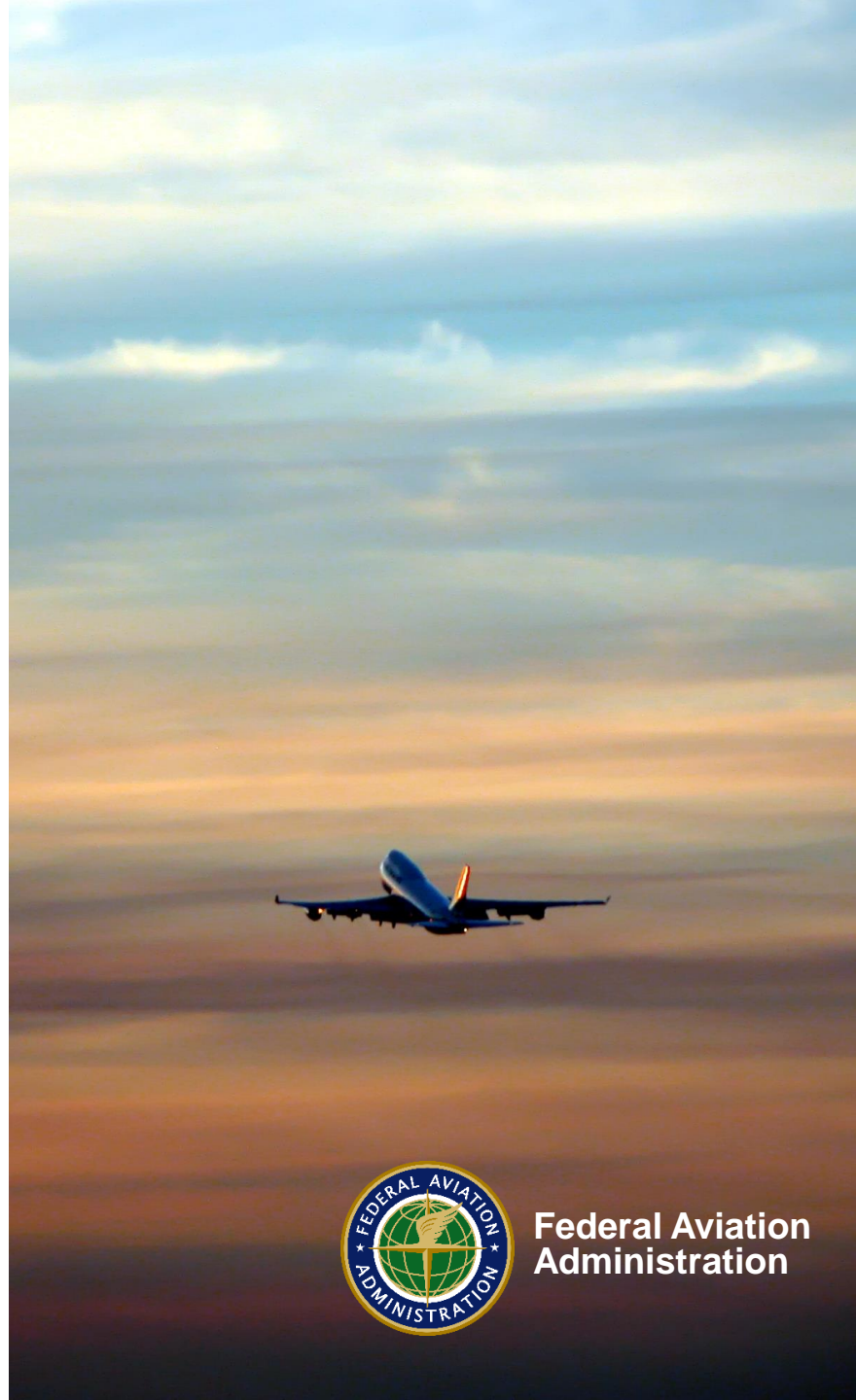
Ray Mitchell & Xavier Pratt

*FAA Contract Support – LST Systems
Engineers*

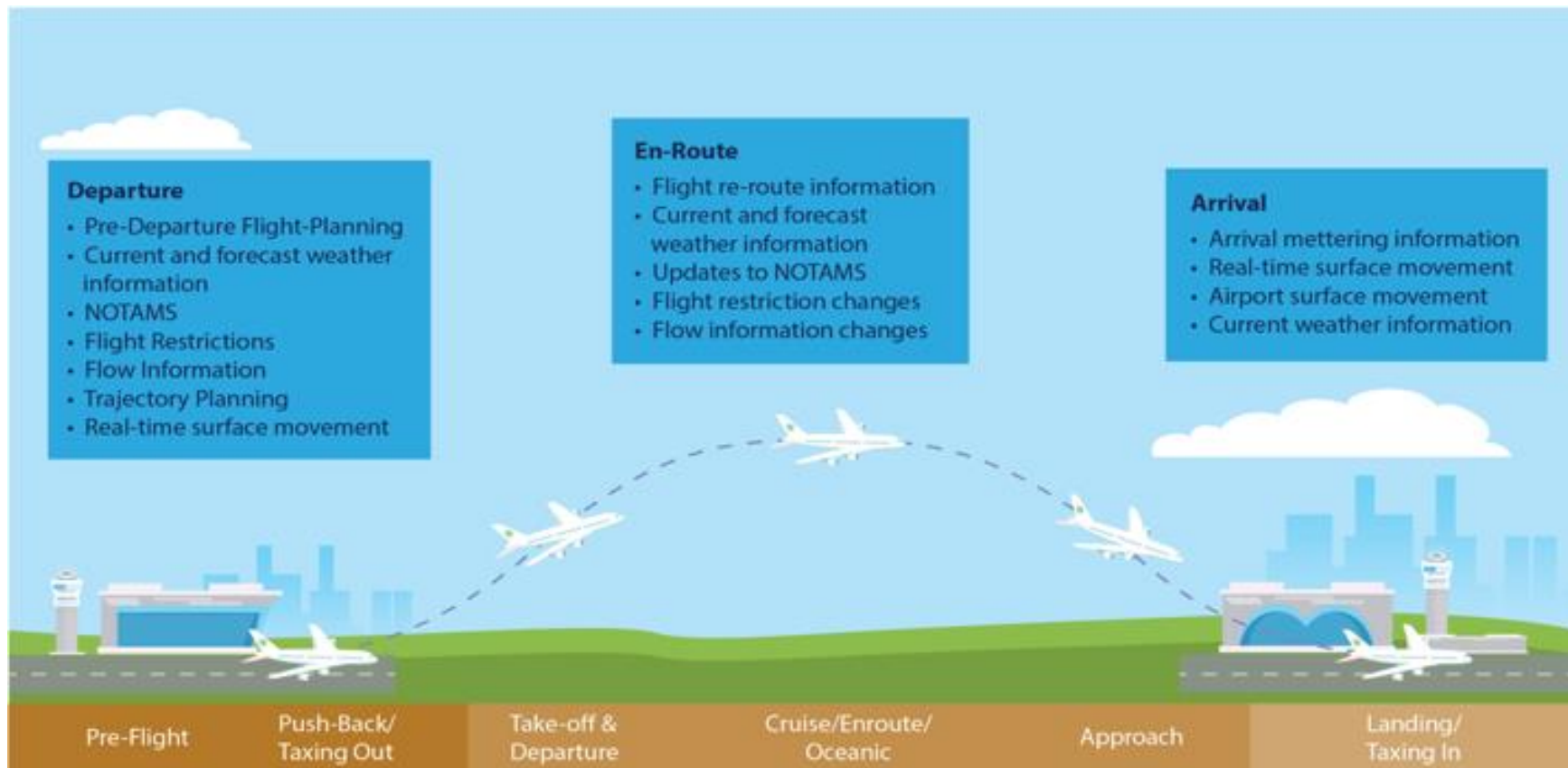
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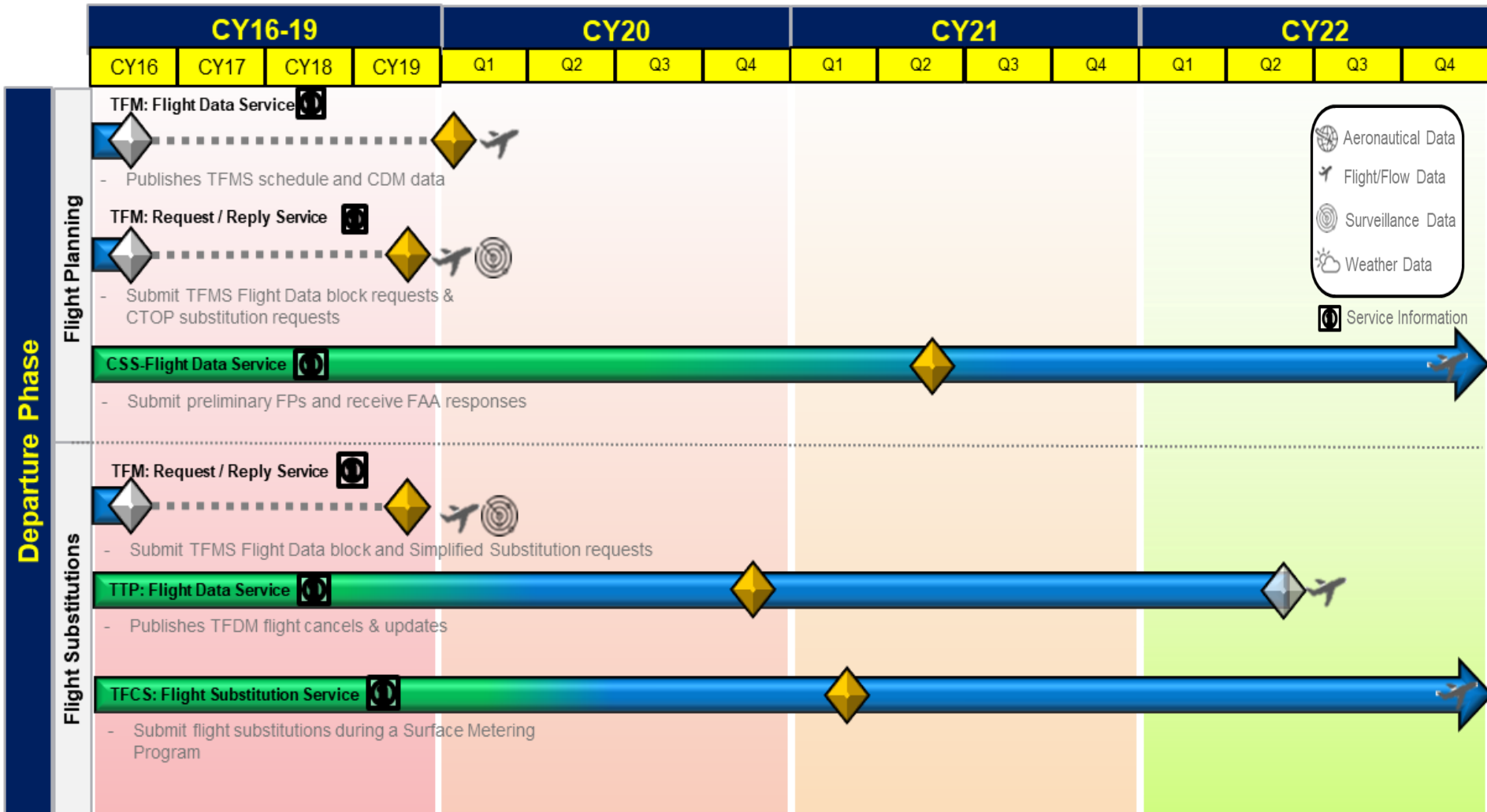
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SWIM Services By Phase of Flight

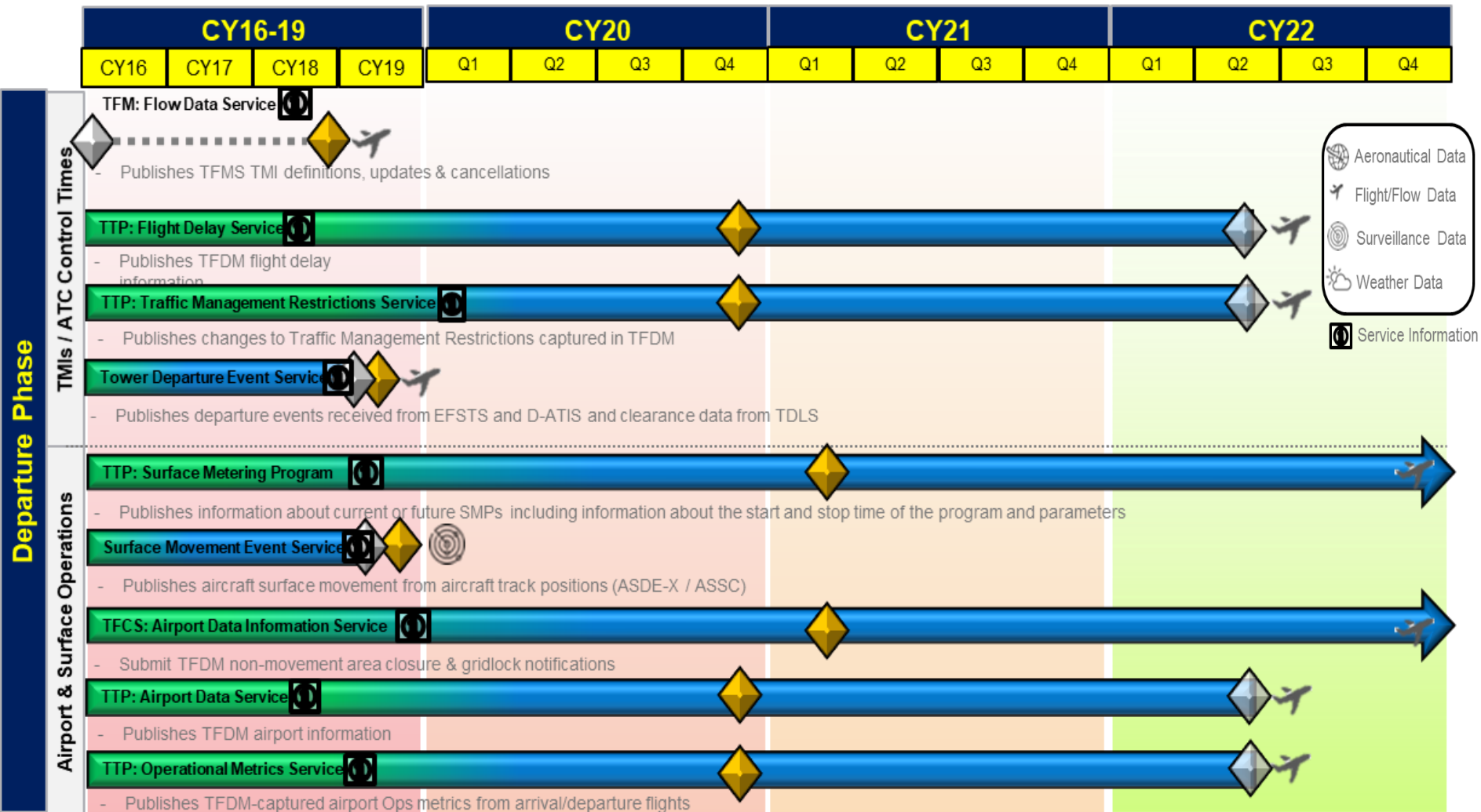


SWIM Information Services Roadmap



*Calendar year dates, subject to change

SWIM Information Services Roadmap



*Calendar year dates, subject to change

Legend



Analysis/Design Phase

Implementation/Development Phase

Service Description

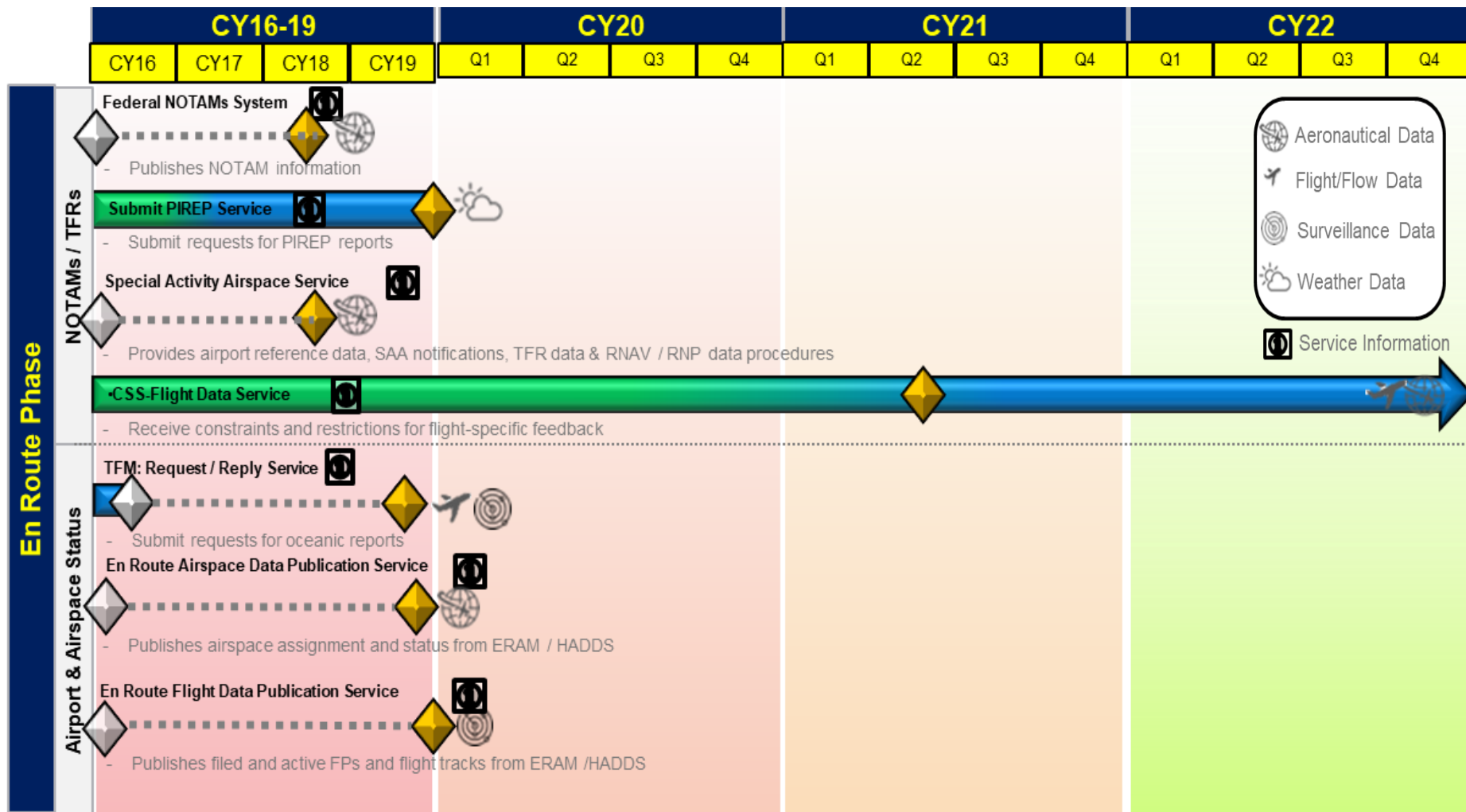


Service Available Milestone



Ops Context Document Available Milestone

SWIM Information Services Roadmap



*Calendar year dates, subject to change

Legend



Analysis/Design Phase

Implementation/Development Phase

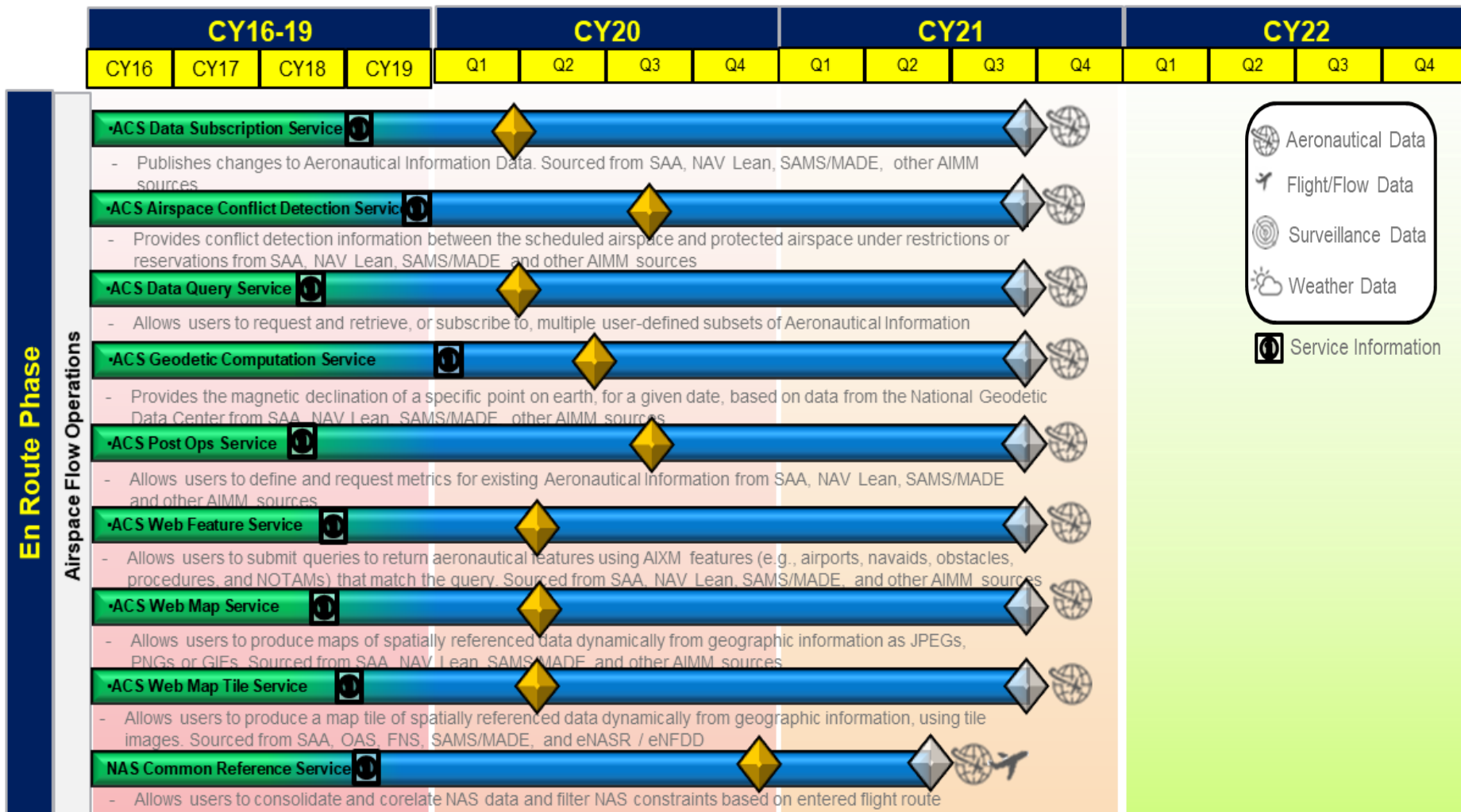
Service Description



Service Available Milestone

Ops Context Document Available Milestone

SWIM Information Services Roadmap



*Calendar year dates, subject to change

Legend



Analysis/Design Phase

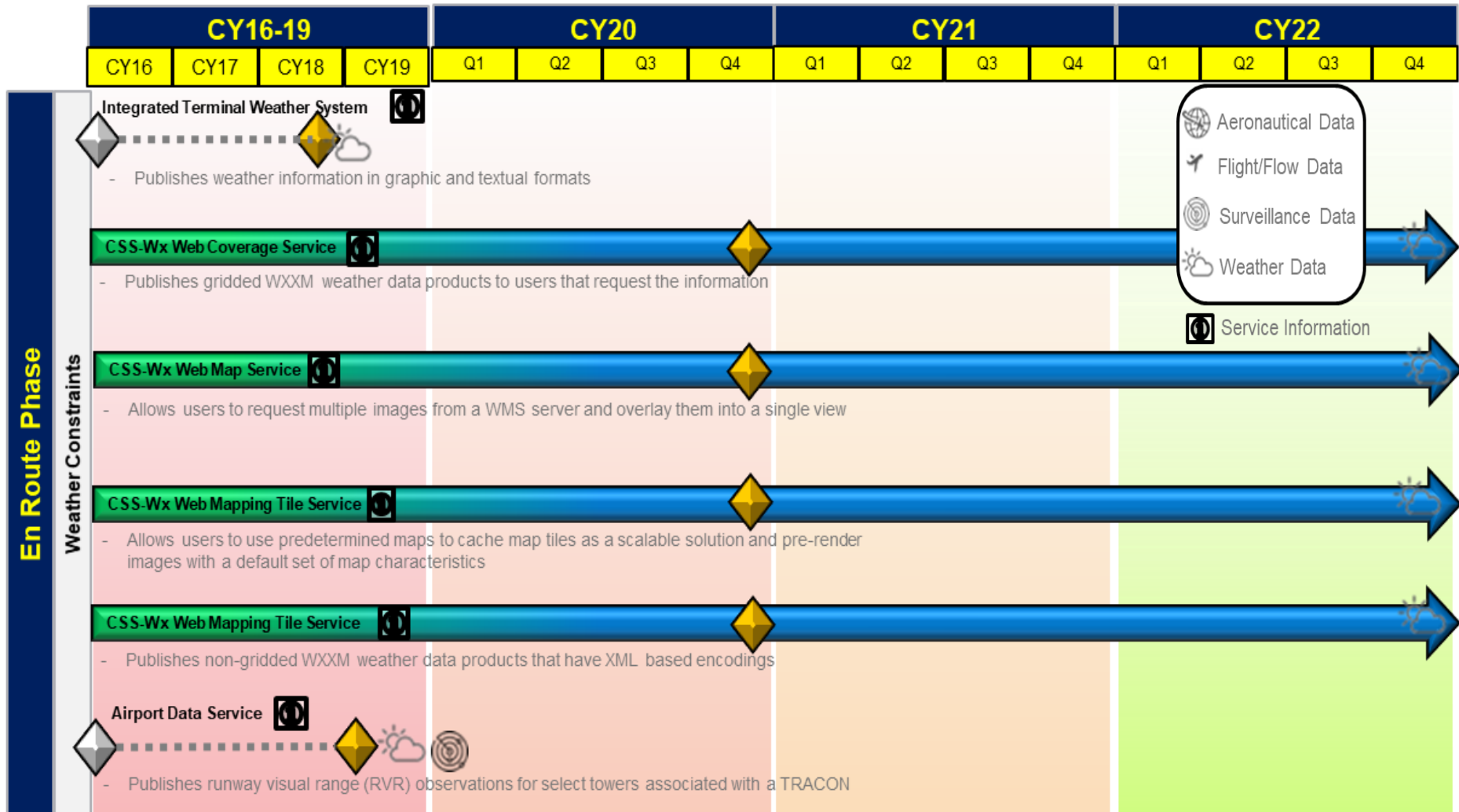
Implementation/Development Phase

Service Description

Service Available Milestone

Ops Context Document Available Milestone

SWIM Information Services Roadmap



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Legend



Analysis/Design Phase

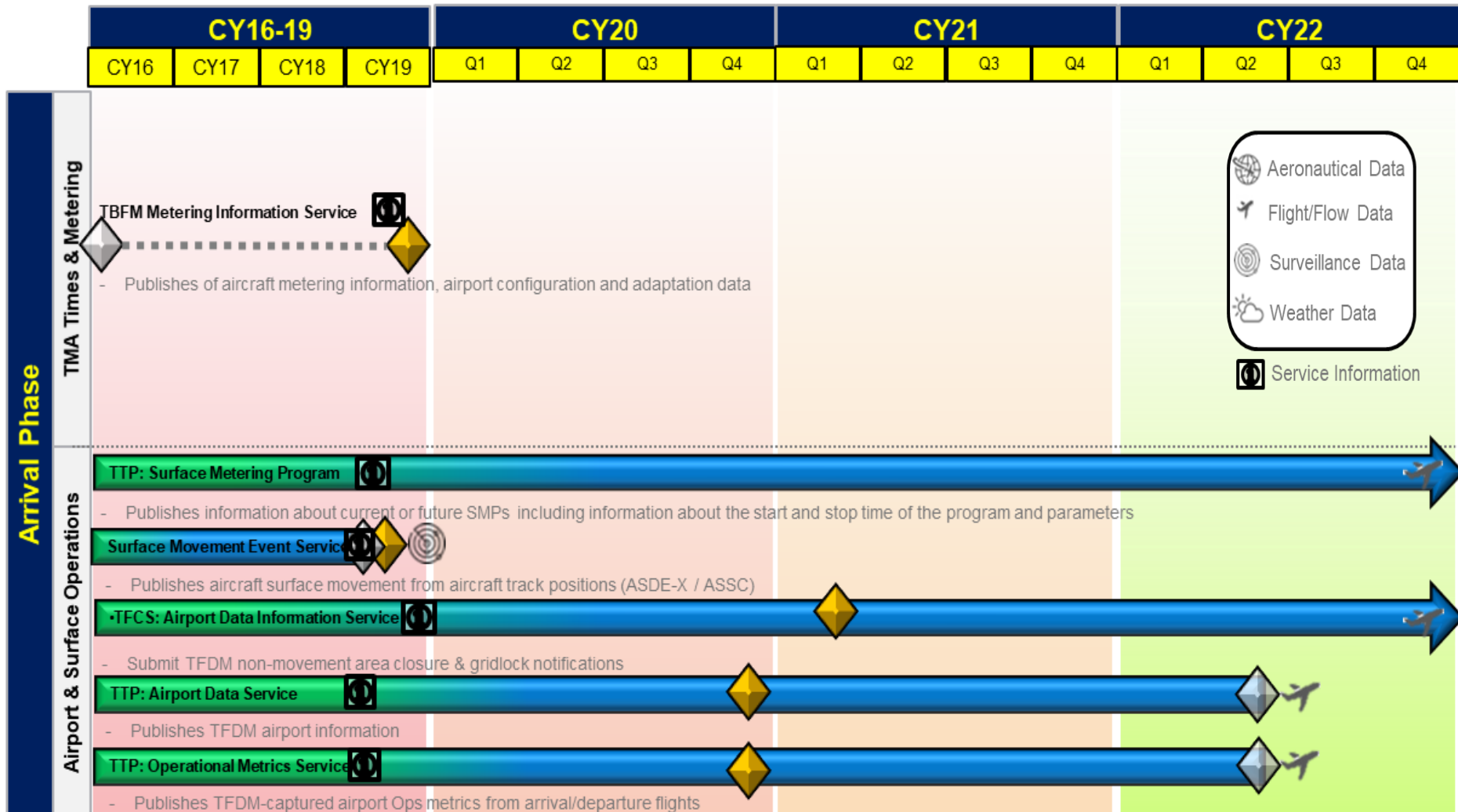
Implementation/Development Phase

Service Description

Service Available Milestone

Ops Context Document Available Milestone

SWIM Information Services Roadmap



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Legend



Analysis/Design Phase

Implementation/Development Phase

Service Description



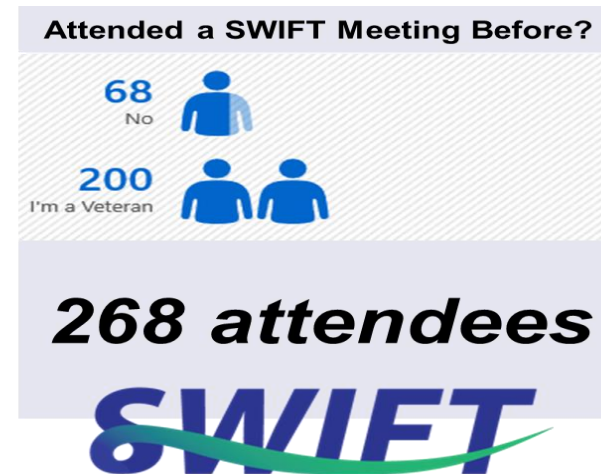
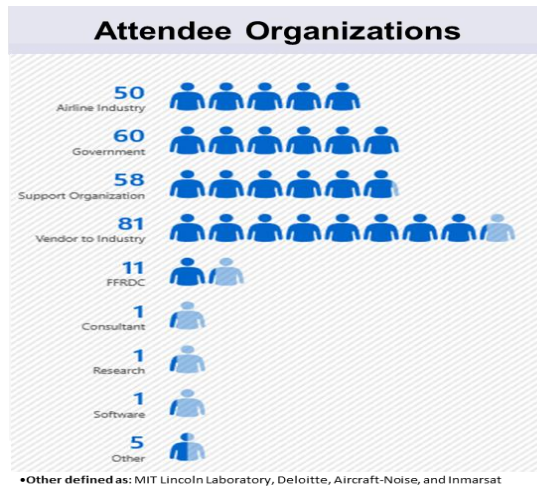
Service Available
Milestone

Ops Context Document
Available Milestone

SWIFT Update



SWIFT Update



- SWIFT 12 (*latest & largest*) saw virtual crowds of up to 268 registered attendees with 220 active attendees participating during the 3.5-hour event. *Perfect way to spend **SWIFT's 3rd Birthday!***
- SWIFT continues to expand the scope of the Operational Issues Focus Group and the Development Analytics Focus Group. Both groups continue to discover new initiatives while making great progress for resolution of the priority items.
 - Items include TBFM Delay, SWIM ETA, Flight Plan Modernization, and the joint NCR/MITRE led Honeycomb Application for Flight Disruptions & Deviation
- Operational Context Document Focus Group – will reconvene this month focused on TFDM services - date TBD
- SWIFT 13 Planned for February 18, 2021, official email correspondence coming soon!
- [SWIFT 13 Registration Link](#)

Ready to Join Us?

SWIFT Chair

- *Stefanie C. Calabrese* - stefanie.c.calabrese@faa.gov

SWIFT Community Facilitator/Moderator

- *David Almeida* — david.almeida@lstechllc.com

Operational Issue Focus Group

- *Xavier Pratt* — xavier.pratt@lstechllc.com

Development Analytics Focus Group

- *Ray Mitchell* — ray.mitchell@lstechllc.com

Upcoming SWIM Events

- SWIFT 13
 - February 18, 2021 from 12:30-4pm ET

We hope to see you there!

Thank You



Questions? Email swim@faa.gov

Your feedback is important to us!

[January 2021 Users Forum Feedback Form](#)

- Scan the QR Code below using the camera on your mobile phone
- Select the link that at the top of your phone screen
- Share your feedback in 3 minutes or less
- Thank you!

